产品名称: RPA70 (7S18) Rabbit Monoclonal Antibody

产品货号: AMRe17340



### 产品概述 (Summary)

产品名称 (Production Name) RPA70 (7S18) Rabbit Monoclonal Antibody

描述 (Description) Recombinant rabbit monoclonal antibody

宿主 (Host) Rabbit

**应用 (Application)** WB,IHC,ICC/IF,FC,IP,IF-P

种属反应性 (Reactivity) Human

## 产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Monoclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New

储存溶液 (Buffer) type preservative N and 50% glycerol. Store at +4°C short term. Store at -

20°C long term. Avoid freeze / thaw cycle.

纯化方式 (Purification) Affinity purification

# 免疫原信息 (Immunogen)

基因名 (Gene Name) RPA1

别名 (Alternative Names) RPA1; HSSB; MST075; REPA1; RF-A; RP-A; RPA70;

**基因 ID (Gene ID)** 6117.0 **蛋白 ID (SwissProt ID)** P27694.

# 产品应用(Application)

WB 1:1000-1:5000,IHC 1:20-1:100,ICC/IF 1:20-1:50,FC 1:20-1:50,IP 1:20-1:50,IF-

稀释比 (Dilution Ratio) P 1:20-1:100

**蛋白分子量 (Molecular Weight)** 68kDa

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#### 研究背景 (Background)

Plays an essential role in several cellular processes in DNA metabolism including replication, recombination and DNA repair. Binds and subsequently stabilizes single-stranded DNA intermediates and thus prevents complementary DNA from reannealing. As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism (PubMed: <a href="http://www.uniprot.org/citations/27723720" target=" blank">27723720</a>, PubMed:<a href="http://www.uniprot.org/citations/27723717" target=" blank">27723717</a>). Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage (PubMed: <a href="http://www.uniprot.org/citations/9430682" target=" blank">9430682</a>). In the cellular response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint activation. Through recruitment of ATRIP activates the ATR kinase a master regulator of the DNA damage response (PubMed: <a href="http://www.uniprot.org/citations/24332808" target=" blank">24332808</a>). It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage (PubMed: <a href="http://www.uniprot.org/citations/17765923" target=" blank">17765923</a>). Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair and is required for this mechanism of DNA repair (PubMed: <a href="http://www.uniprot.org/citations/7697716" target=" blank">7697716</a>). Plays also a role in base excision repair (BER) probably through interaction with UNG (PubMed: <a href="http://www.uniprot.org/citations/9765279" target=" blank">9765279</a>). Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance (PubMed: <a href="http://www.uniprot.org/citations/17959650" target=" blank">17959650</a>). As part of the alternative replication protein A complex, aRPA, binds single-stranded DNA and probably plays a role in DNA repair. Compared to the RPA2-containing, canonical RPA complex, may not support chromosomal DNA replication and cell cycle progression through S-phase. The aRPA may not promote efficient priming by DNA polymerase alpha but could support DNA synthesis by polymerase delta in presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51- dependent strand exchange

(PubMed: <a href="http://www.uniprot.org/citations/19996105" target="blank">19996105</a>).

#### 研究领域 (Research Area)

**Epigenetics and Nuclear Signaling** 

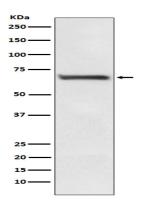
#### 图片 (Image Data)

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Western blot analysis of RPA70 expression in HEK293 cell lysate.

## 注意事项 (Note)

For research use only .

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